OSBPL8 siRNA – Oxysterol-Binding Protein-Related Protein 8 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	OSBPL8, siRNA
Full Product Name	OSBPL8 siRNA (Human)
Product Gene Name	OSBPL8 sirna
Product Synonym Names	KIAA1451; ORP8; OSBP10; Oxysterol-binding protein-related protein 8; ORP-8; OSBP-related protein 8
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	OSBPL8 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	96,956 Da
OMIM	606736
3D Structure	ModBase 3D Structure for Q9BZF1
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human OSBPL8 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for OSBPL8 sirna	RNA Interference (RNAi)
Related Product Information for OSBPL8 sirna	MBS8227527 is an siRNA targeting OSBPL8. Also known as OSBPL8 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit OSBPL8 expression using RNA interference
Other Notes	Small volumes of OSBPL8 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OSBPL8. It may not necessarily be applicable to this product.

NCBI GI #	51243032
NCBI GeneID	114882
NCBI Accession #	NP_001003712.1
UniProt Primary Accession #	Q9BZF1
UniProt Secondary Accession #	Q52LQ3; Q68D75; Q8WXP8; Q9P277; A8K1T2; E9PE66; E9PE68
UniProt Related Accession #	Q9BZF1
GenBank Nucleotide #	NM_001003712.1
NCBI Official Full Name	oxysterol-binding protein-related protein 8 isoform b
NCBI Official Synonym Full Names	oxysterol binding protein-like 8
NCBI Official Symbol	OSBPL8
NCBI Official Synonym Symbols	ORP8; MST120; OSBP10; MSTP120
UniProt Protein Name	Oxysterol-binding protein-related protein 8
Protein Family	Oxysterol-binding protein-related protein
UniProt Gene Name	OSBPL8
UniProt Synonym Gene Names	KIAA1451; ORP8; OSBP10; ORP-8; OSBP-related protein 8
UniProt Entry Name	OSBL8_HUMAN
NCBI Protein Information	oxysterol-binding protein-related protein 8
NCBI Summary for OSBPL8	This gene encodes a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors. Like most members, the encoded protein contains an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for OSBPL8	OSBPL8: a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors. Contains an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain. Two splice variant isoforms have been described. Protein type: Unknown function Chromosomal Location of Human Ortholog: 12q14 Cellular Component: nuclear membrane; membrane Molecular Function: cholesterol binding Biological Process: fat cell differentiation; positive regulation of protein kinase B signaling cascade; positive regulation of insulin receptor signaling pathway; lipid transport; negative regulation of cell migration
Research Articles on OSBPL8	**1.** ORP5 and ORP8 could mediate PI4P/phosphatidylserine (PS) countertransport between the endoplasmic reticulum (ER) and the plasma membrane (PM), thus delivering PI4P to the ER-localized PI4P phosphatase Sac1 for degradation and PS from the ER to the PM.
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